

In the Claims

1-10. (Canceled)

11. (Currently amended) An implantable device comprising a coating, which comprises a polymeric composition comprising a polysulfone (A) and an elastomeric polymer (B), wherein the polysulfone and the elastomeric polymer form a conjugate by direct chemical bonding, and

wherein the elastomeric polymer is selected from the group consisting of polyisobutylene, polyperfluoroalkylene, polyhexafluoropentene, natural rubber, nylon, poly(butyl methacrylate), poly(lauryl methacrylate), polyalkylene oxide, polyalkylene oxide acrylate, and a combination thereof.

12. (Previously presented) The implantable device of claim 11, wherein the device is a stent.

13. (Previously presented) The implantable device of claim 12, wherein the coating further comprises a bioactive agent.

14. (Previously presented) The implantable device of claim 13 wherein the bioactive agent is selected from the group consisting of tacrolimus, dexamethasone, rapamycin, Everolimus, 40-O-(3-hydroxy)propyl-rapamycin, 40-O-[2-(2-hydroxy)ethoxy]ethyl-rapamycin, and 40-O-tetrazole-rapamycin, paclitaxel, taxoids, estradiol, steroidal anti-inflammatory agents, antibiotics, nitric oxide donors, super oxide dismutases, super oxide dismutase mimics, 4-amino-2,2,6,6-tetramethylpiperidine-1-oxyl (4-amino-TEMPO), and a combination thereof.

15-30. (Canceled)

31. (Canceled)

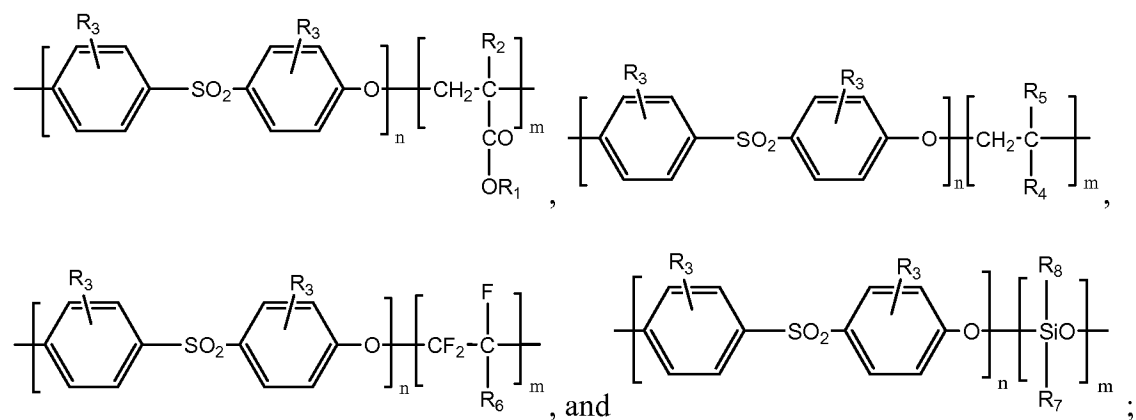
32. (Currently amended) The implantable device of claim 11, wherein the elastomeric

polymer is selected from the group consisting of polyisobutylene, polyperfluoroalkylene, polyhexafluoropentene, polysiloxane, natural rubber, nylon, poly(butyl methacrylate), poly(lauryl methacrylate), polyalkylene oxide, polyalkylene oxide acrylate, and a combination thereof.

33. (Canceled)

34. (Previously presented) The implantable device of claim 11, wherein the conjugate comprises a copolymer that comprises at least one block of a polysulfone polymer (A) and at least one block of an elastomeric polymer (B) in a general formula selected from AB, ABA or BAB.

35. (Currently amended) An implantable device comprising a coating, which comprises a polymeric composition comprising a polysulfone (A) and an elastomeric polymer (B), wherein the polysulfone and the elastomeric polymer form a conjugate comprising a block copolymer
~~The implantable device of claim 34, wherein the block copolymer is selected from the group consisting of~~



wherein R₁ is selected from the group consisting of C1 to C10 alkyl, C2, C4 and C6 hydroxyalkyl, C1 to C6 fluoroalkyl, phenyl, substituted phenyl, polyethylene glycol, polyalkylene oxide, ethylene oxide and propylene oxide;

wherein R₂, R₄, R₅, R₇ and R₈ are independently selected from the group consisting of

hydrogen, C1 to C6 alkyl, C2, C4 and C6 hydroxyalkyl, C1 to C6 fluoroalkyl, phenyl, substituted phenyl, carboxyl, amido, ester groups bearing a polyethylene glycol, and polyalkylene oxide;

wherein R₃ is selected from the group consisting of hydrogen, alkyl, cycloalkyl, phenyl, carboxyl, halo, amino, hydroxyl, amido, sulfido, and polyalkylene oxide;

wherein R₆ is a perfluoroalkyl group;

wherein R₄, R₅, and R₆ are selected such that the $\left[\text{H}_2\text{C}-\underset{\text{R}_4}{\overset{\text{R}_5}{\text{C}}} \right]_m$ block and the

$\left[\underset{\text{R}_6}{\overset{\text{F}_2}{\text{C}}}-\underset{\text{R}_6}{\overset{\text{F}}{\text{C}}} \right]_m$ are elastomeric; and

wherein n and m are independently positive integers.

36. (Previously presented) The implantable device of claim 35, wherein R₁ is butyl, isobutyl or isopropyl;

wherein R₂ is hydrogen or methyl;

wherein R₃ is hydrogen, halo, or methyl;

wherein R₄ and R₅ are independently hydrogen, methyl, ethyl, isopropyl, butyl, isobutyl, or phenyl;

wherein R₆ is CF₂CF₃, CF₂CF₂CF₃, perfluoroisopropyl, perfluorobutyl or perfluoroisobutyl; and

wherein R₇ and R₈ are independently methyl, ethyl, propyl, isopropyl, butyl, or isobutyl group.

37. (Previously presented) The implantable device of claim 35, wherein R₁ is butyl;

wherein R_2 is methyl;

wherein R_3 is hydrogen;

wherein R_4 or R_5 are methyl groups; and

wherein R_7 and R_8 are methyl groups.

38. (Canceled)

39. (Canceled)